

M 5.8, 111 km WSW of Houma, Tonga

Origin Time: 2024-01-18 04:50:01 UTC (Wed 16:50:01 local)
Location: 21.6516° S 176.2501° W Depth: 155.0 km

PAGER Version 4

Created: 1 day, 0 hours after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Shaking Intensity	Estimated Fatalities
1-10	65%
10-100	30%
100-100,000	4%

Estimated Economic Losses

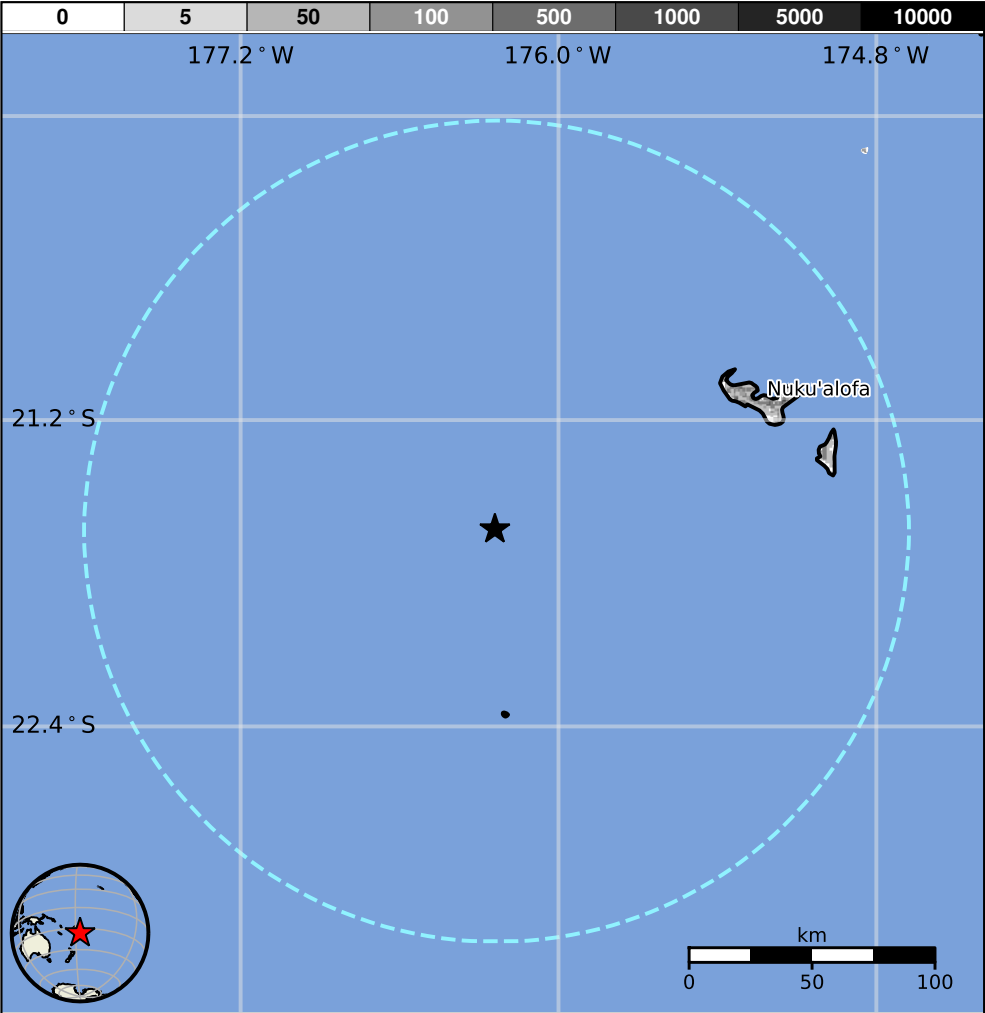
Shaking Intensity	Estimated Economic Losses (USD Millions)
1-10	65%
10-100	30%
100-100,000	4%

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	3k*	86k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are unknown/miscellaneous types and wood construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1977-06-22	148	8.0	VII(47k)	0
1983-03-21	101	6.7	VII(53k)	—
2006-05-03	278	8.0	VIII(7k)	0

Selected City Exposure

MMI	City	Population
IV	'Ohonua	1k
IV	Vaini	3k
IV	Haveluloto	3k
IV	Nuku'alofa	22k